

Figure 1

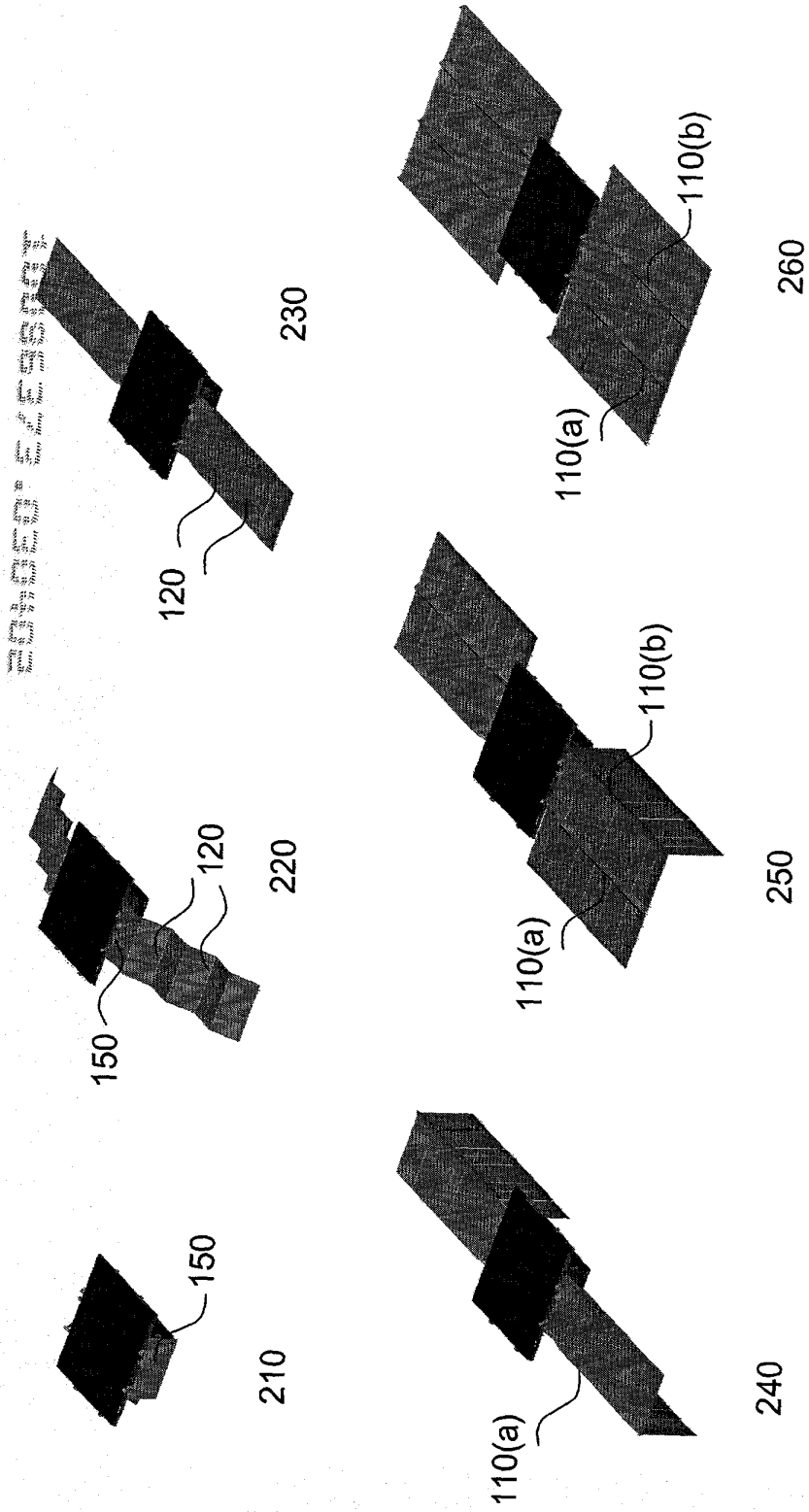


Figure 2

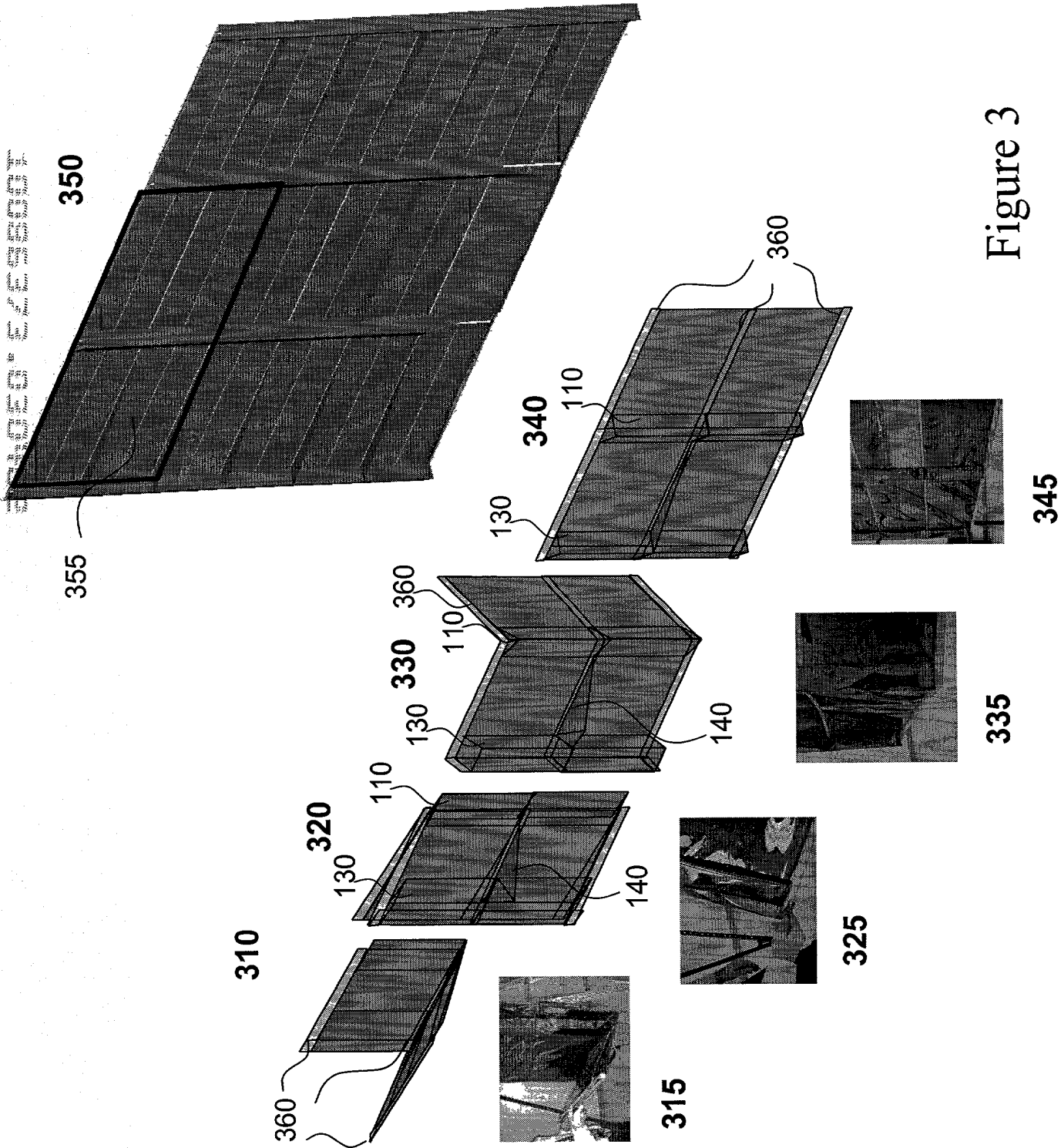


Figure 3

Figure 4

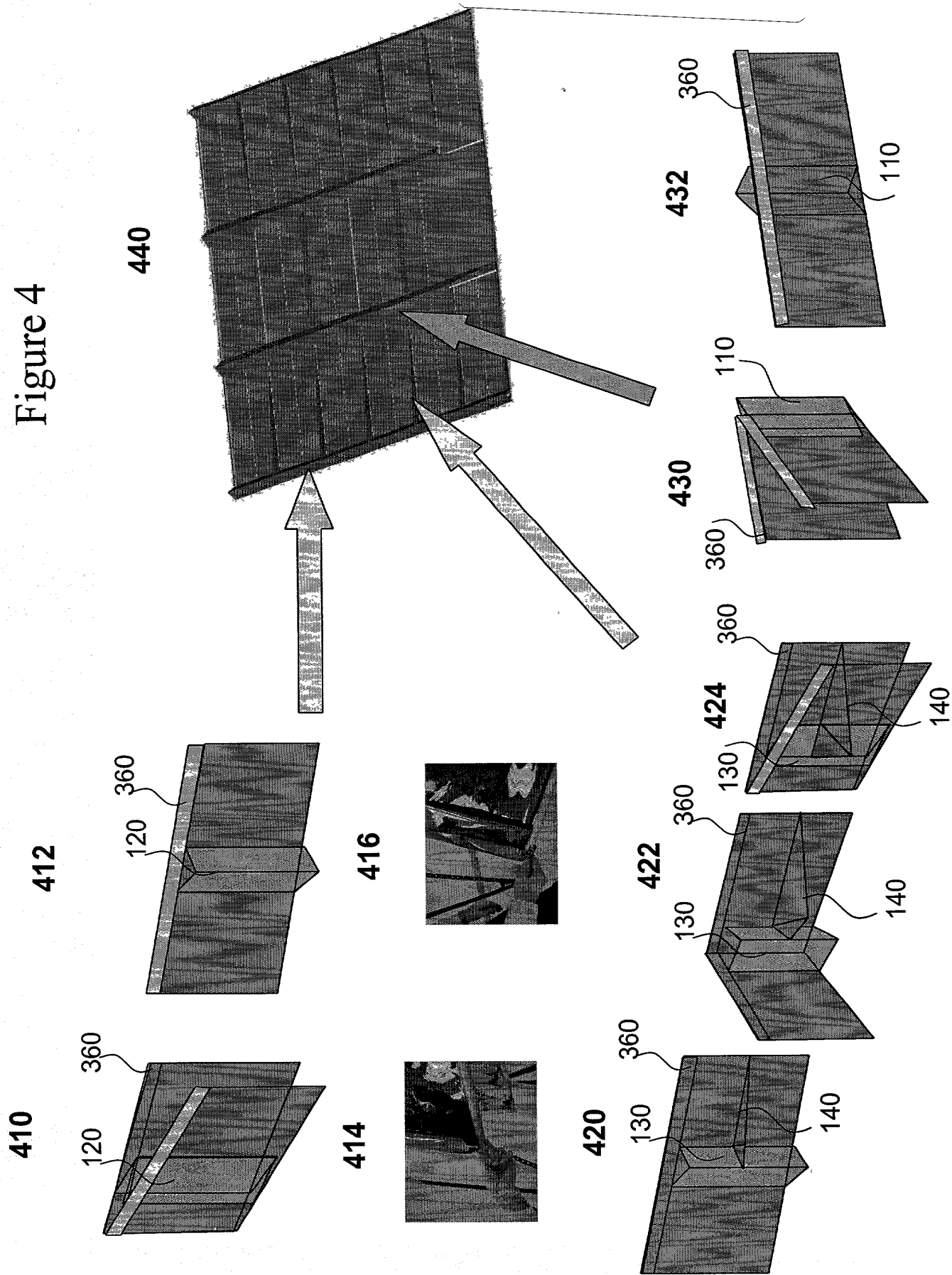
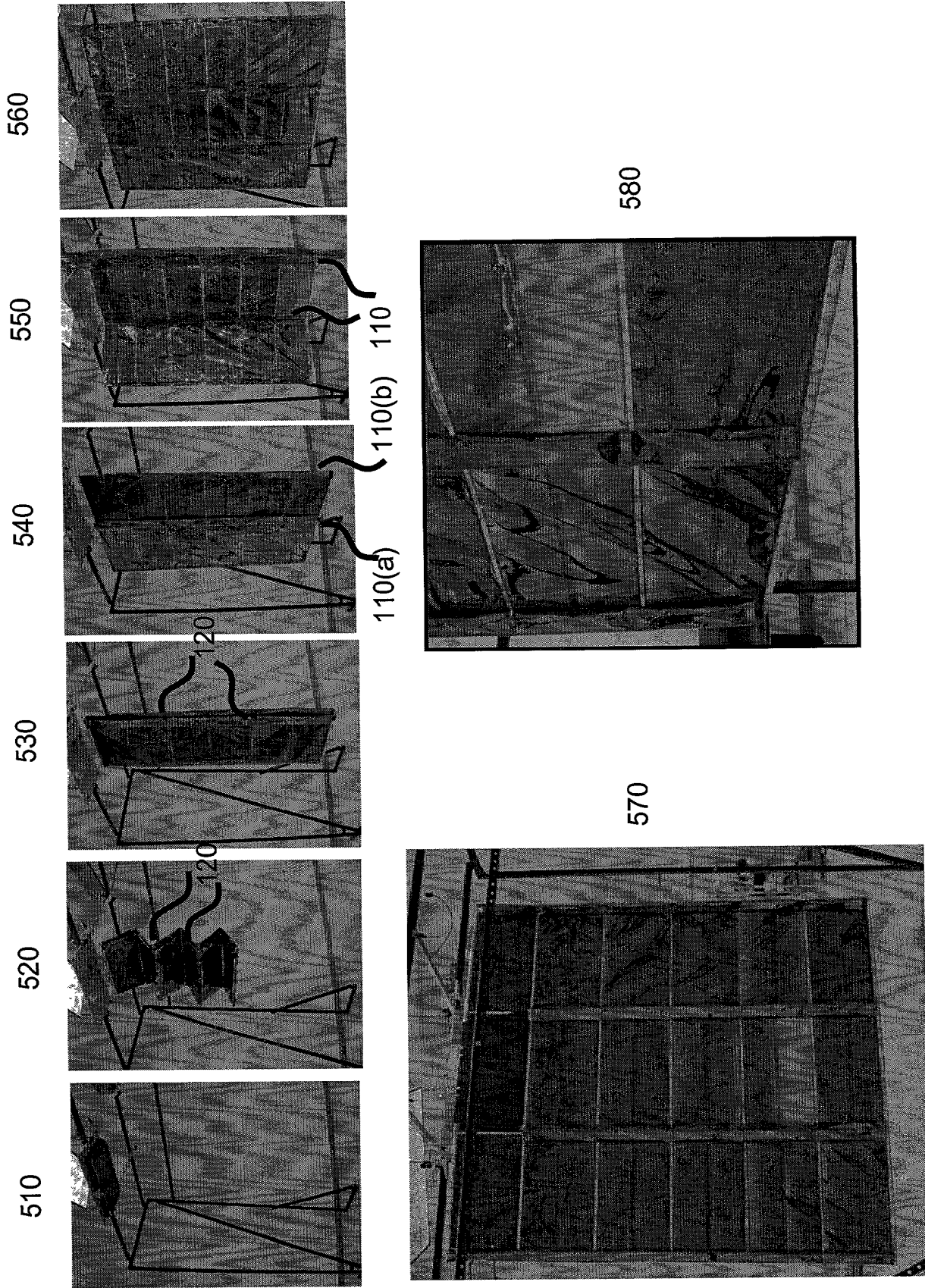


Figure 5



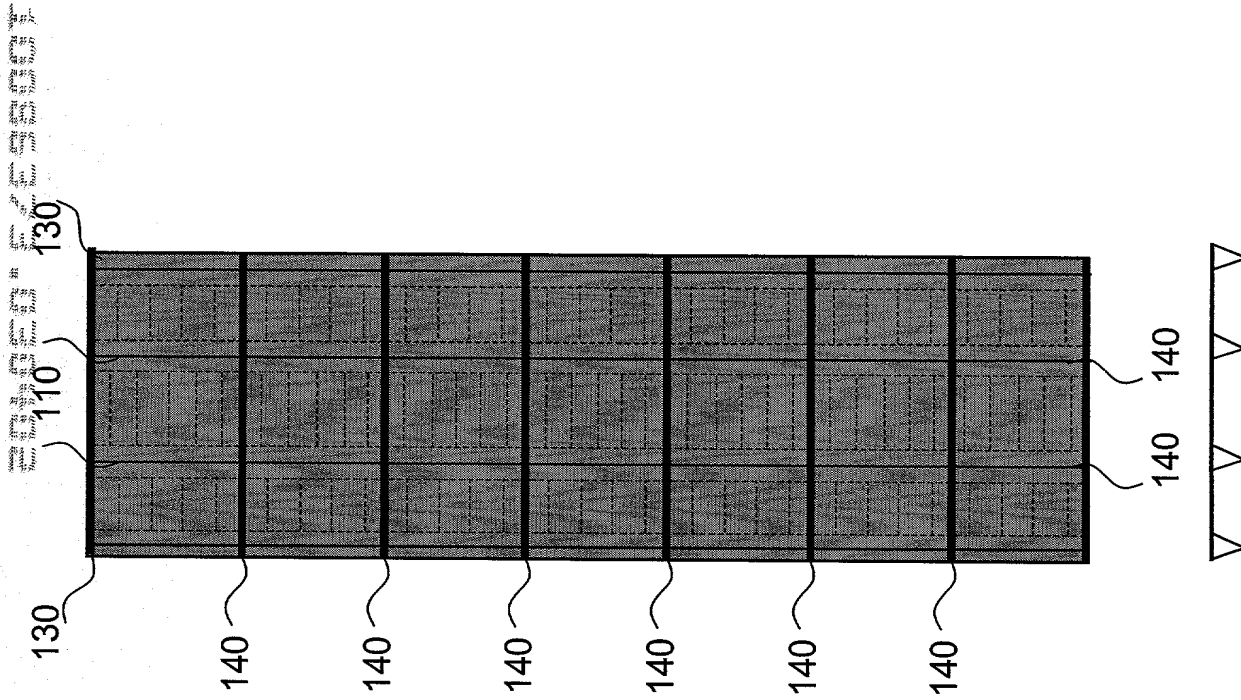
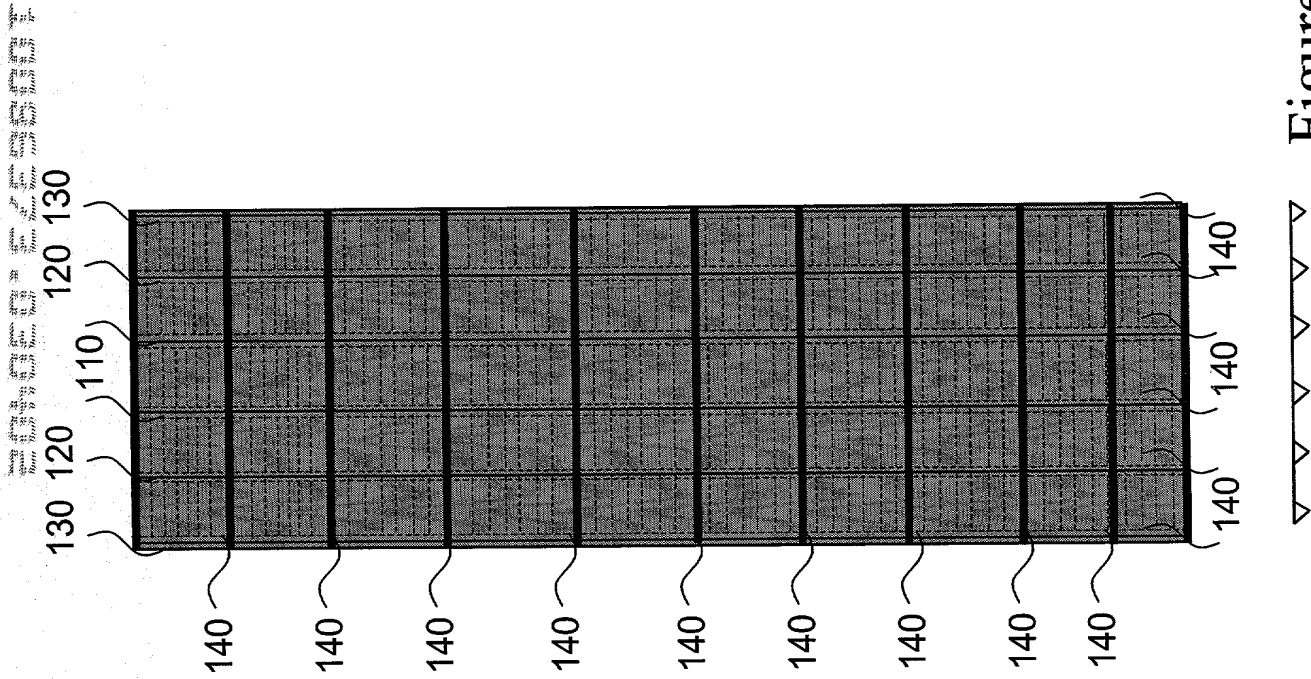


Figure 6



First Fundamental Frequency of 0.48 Hz

MODE: 29 FREQ: 0.4857015
STRAIN ENERGY - MAG MIN: 0.00E+00 MAX: 1.00E+00
RESULTS: 49-B.C. 1 NORMAL MODE 29, DISPLACEMENT_49
MODE: 29 FREQ: 0.4857015
DISPLACEMENT - MAG MIN: 0.00E+00 MAX: 3.74E+01
CRITERION ABOVE : 0.00E+00

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Inventor: Cary R. CLARK et al.
Title: APPARATUS AND METHOD FOR THE DESIGN
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Atty. Dkt. No. 26180.0002
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VALUE OPTION: ACTUAL
SHELL SURFACE: MIDDLE

1.00D+00

9.00D-01

8.00D-01

7.00D-01

6.00D-01

5.00D-01

4.00D-01

3.00D-01

2.00D-01

1.00D-01

0.00D+00

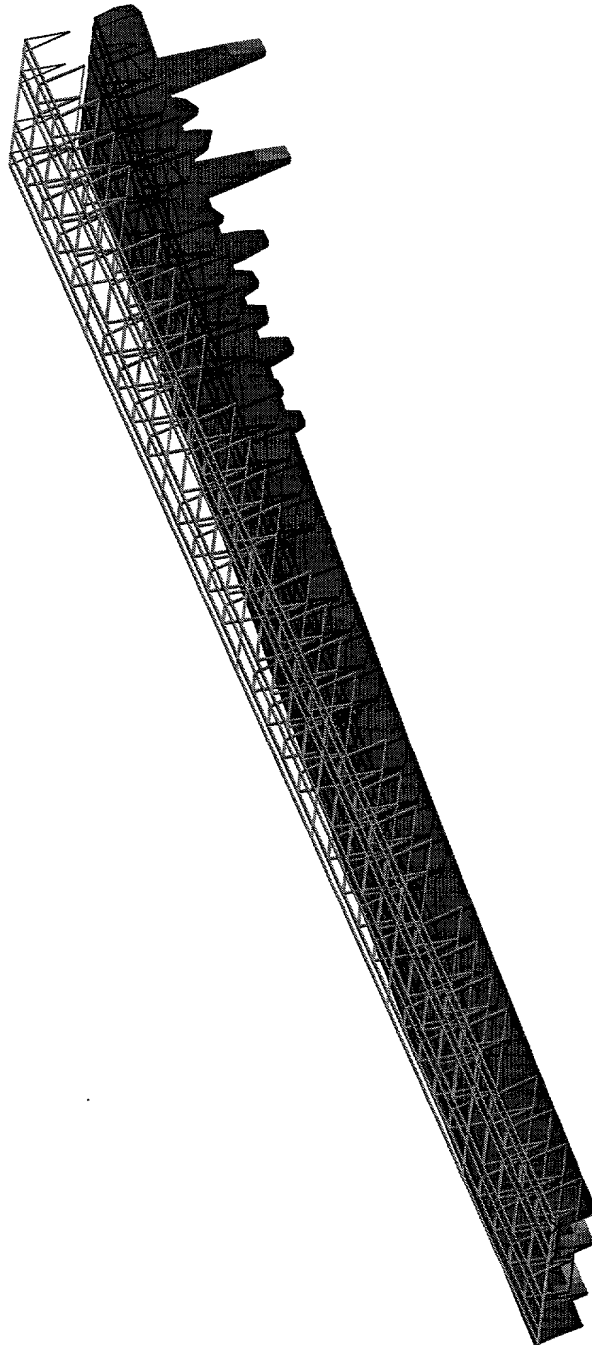


Figure 8

First Fundamental Frequency of 0.43 Hz

MODE: 1 FREQ: 0.430792
 STRAIN ENERGY - MAG MIN: 0.00E+00 MAX: 5.35E-01
 RESULTS: 1-BC, 1-NORMAL, MODE 1, DISPLACEMENT_1
 MODE: 1 FREQ: 0.4360792
 DISPLACEMENT - MAG MIN: 0.00E+00 MAX: 7.96E+00
 CRITERION: ABOVE : 0.00E+00

VALUE OPTION: ACTUAL
 SHELL SURFACE: TOP
 5.35D-01

- 4.81D-01
- 4.28D-01
- 3.74D-01
- 3.21D-01
- 2.67D-01
- 2.14D-01
- 1.60D-01
- 1.07D-01
- 5.35D-02
- 0.00D+00

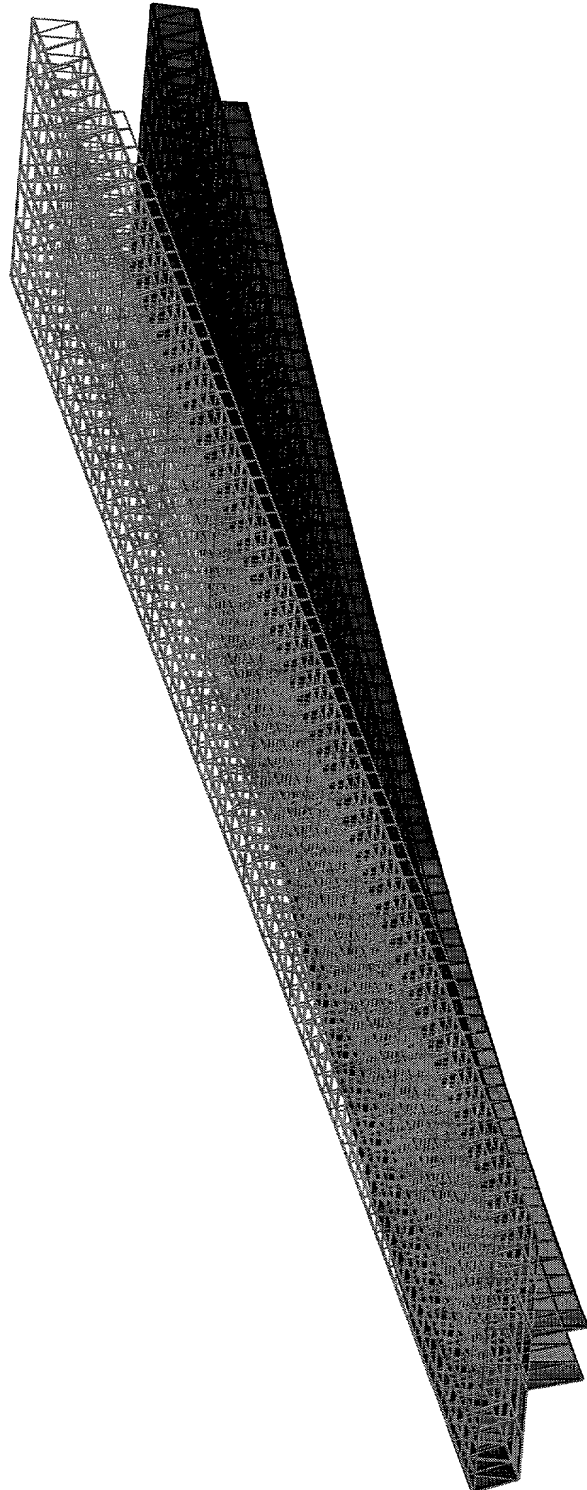


Figure 9

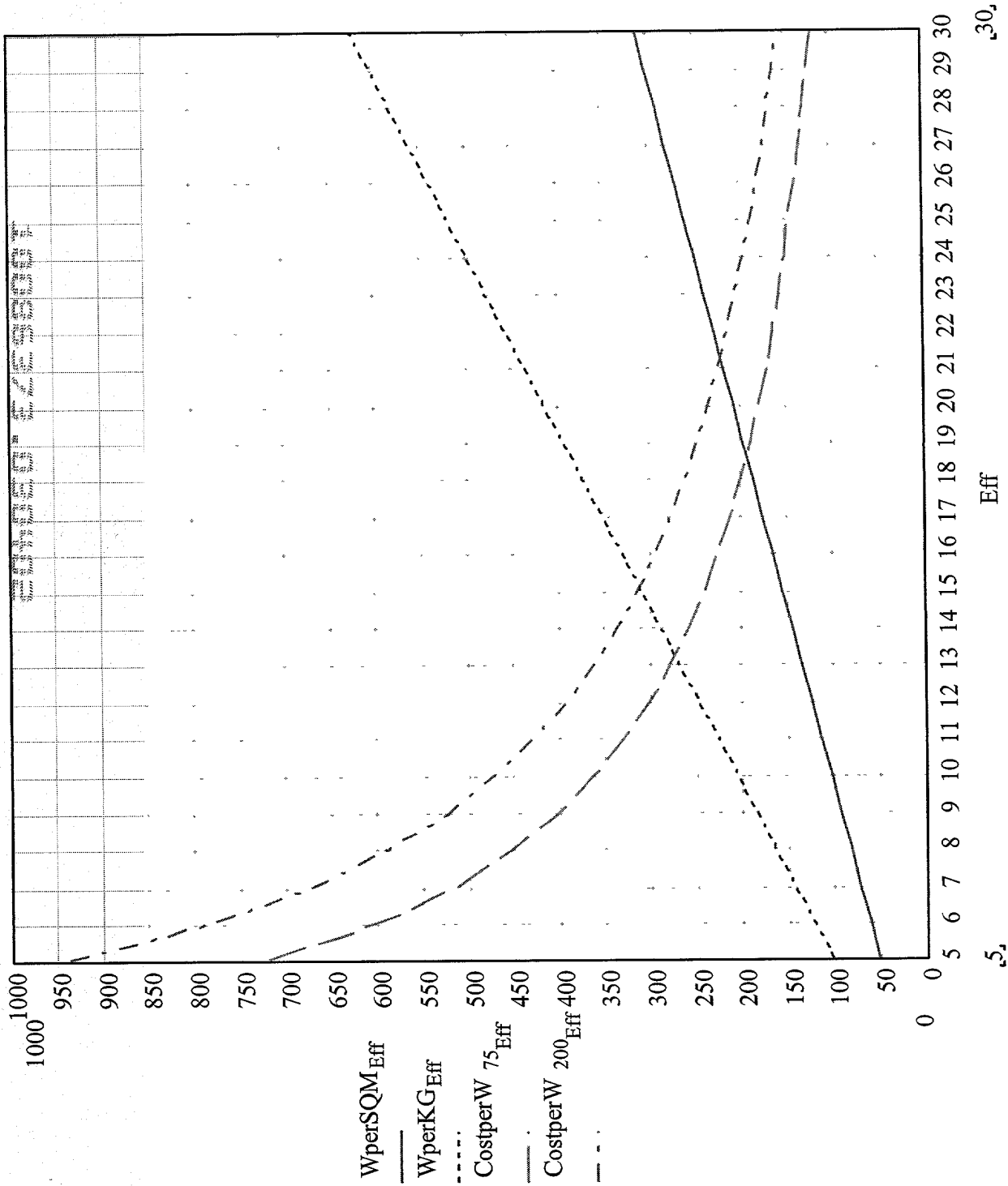


Figure 10

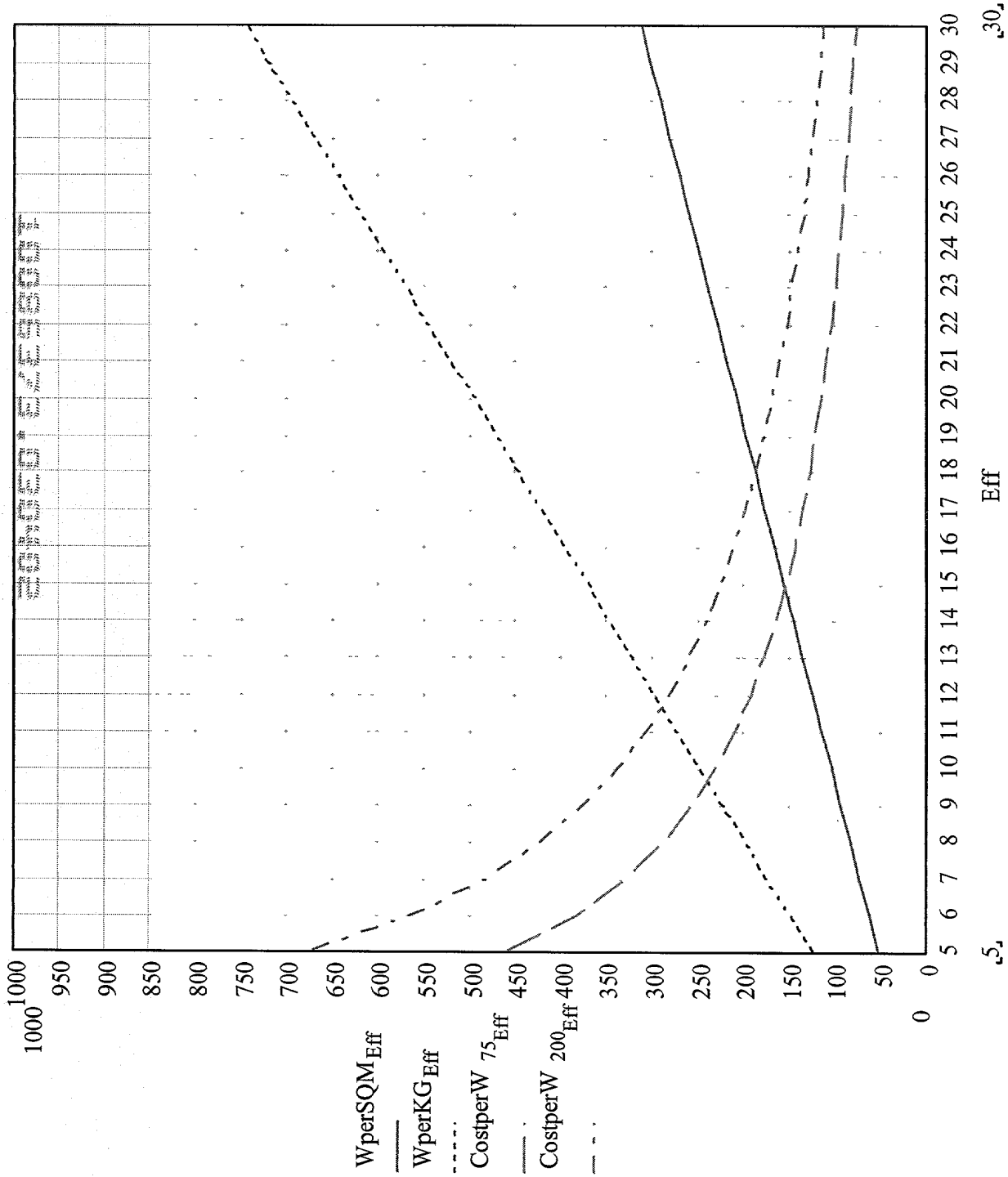


Figure 11

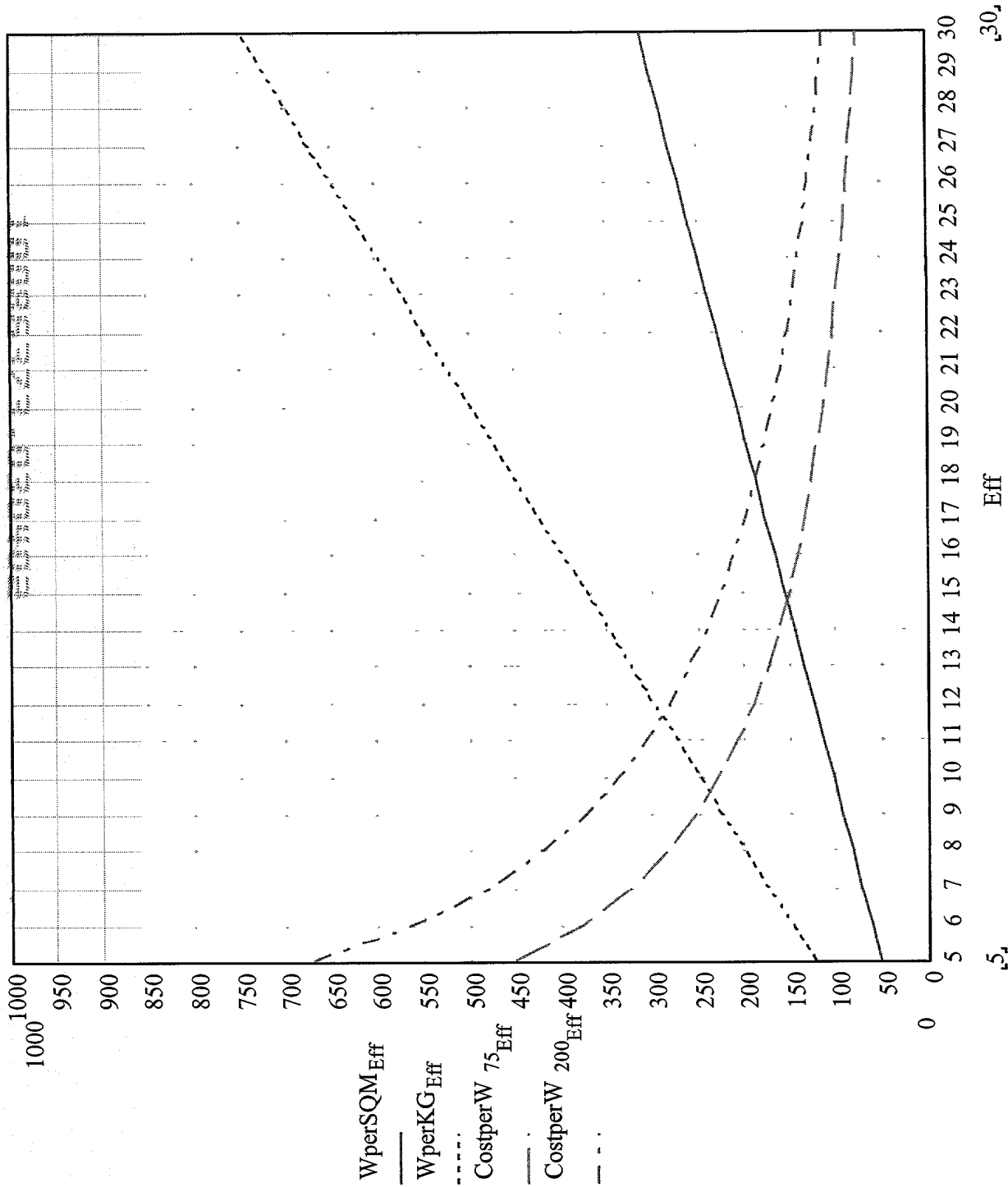


Figure 12